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WHAT IS CLAIMED IS:

1	 A method of managing space within an IMS database, wherein said
2	space is managed during loading or updating of said database, comprising:
3	after said IMS database is loaded, assuming control from an IMS program and
4	obtaining memory addresses of IMS control blocks built by said IMS
5	program and obtaining information about said IMS database;
6	passing control back to said IMS program;
7	when said IMS program attempts to insert data into said IMS database, either
8	during loading or updating of said database, reassuming control from
9	said IMS program;
0	selecting a storage location for said data to be stored;
1	modifying said IMS control blocks to indicate the storage location selected;
2	and
3	passing control back to said IMS program.

- The method of Claim 1, wherein said storage location for said storage data to be stored is selected based on IMS database user preferences.
- 1 3. The method of claim 2, wherein said data includes root segments and 2 said user preferences include storing said root segments in fixed storage locations.
- The method of claim 2, wherein said user preferences include storing said data in particular units of work.
- The method of claim 3, wherein said data also includes non-root segments and said user preferences include storing non-root segments in a block of memory which also contains the root segment of said non-root segments.
- The method of claim 5, wherein said non-root segments are stored in said block of memory which also contains said root segment only if space is available.

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 The method of claim 4, wherein said data includes root and non-root segments, and said non-root segments are stored in a unit of work which contains the root segment of said non-root segments.

	8.	A method of managing space within an IMS database, wherein said		
space is managed during loading or updating of said database, comprising:				
	after s	aid IMS database is loaded, assuming control from an IMS program and		
		obtaining memory addresses of IMS control blocks built by said IMS		
		program and obtaining information about said IMS database;		
	passin	g control back to said IMS program;		
	when	said IMS program attempts to insert a first segment into said IMS		
		database, either during loading or updating of said database,		
		reassuming control from said IMS program, wherein said first segment		
		comprises a prefix component and a data component;		
	splittii	ng said prefix component of said first segment from said data component		
		of said first segment, and appending a data link to each said prefix and		
		data component, said prefix component with said data link appended		
		becoming a second segment and said data component with said data		
		link appended becoming a third segment;		
	selecti	ng storage locations for said second and third segments to be stored;		
	modif	ying said IMS control blocks to indicate the storage locations selected;		
		and		

The method of claim 8, wherein said storage locations for said second and third segments to be stored are selected based on IMS database user preferences.

passing control back to said IMS program.

- 10. The method of claim 9, wherein said second segment is either a root or non-root segment, and wherein said user preferences include storing root segments in fixed storage locations.
- 11. The method of claim 10, wherein said user preferences include storing non-root segments in a block of memory which also contains the root segment of said non-root segments, if space is available.

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- The method of claim 9, wherein said user preferences include storing said second segment in a unit of work.
- The method of claim 12, wherein if said second segment is a non-root segment, it is stored in the unit of work which contains the root segment of said second segment.
 - 14. The method of claim 9, wherein said user preferences included storing said second and third segments in different storage locations in one storage device.
 - 15. The method of claim 9, wherein said user preferences include storing said second and third segments in separate storage devices.

16.	A method of managing space within an IMS database, wherein said			
space is managed during loading or updating of said database, comprising:				
after	said IMS database is loaded, assuming control from an IMS program and			
	obtaining memory addresses of IMS control blocks built by said IMS			
	program and obtaining information about said IMS database;			
passi	ing control back to said IMS program;			
when	n said IMS program attempts to insert data into said IMS database, either			
	during loading or updating of said database, reassuming control from			
	said IMS program;			
selec	eting a storage location for said data to be stored;			
stori	ng said data in the storage location selected;			
mod	ifying said IMS control blocks to indicate the storage location selected;			
	and			
pass	ing control back to said IMS program.			

1	 A method of managing space within an IMS database, wherein said
2	space is managed during loading or updating of said database, comprising:
3	after said IMS database is loaded, assuming control from an IMS program and
4	obtaining memory addresses of IMS control blocks built by said IMS
5	program and obtaining information about said IMS database;
6	passing control back to said IMS program;
7	when said IMS program attempts to insert a first segment into said IMS
8	database, either during loading or updating of said database,
9	reassuming control from said IMS program, wherein said first segment
10	comprises a prefix component and a data component;
11	splitting said prefix component of said first segment from said data component
12	of said first segment, and appending a data link to each said prefix and
13	data component, said prefix component with said data link appended
14	becoming a second segment and said data component with said data
15	link appended becoming a third segment;
16	selecting storage locations for said second and third segments to be stored;
17	storing said second and third segments in the storage locations selected;
18	modifying said IMS control blocks to indicate the storage locations selected;
19	and
20	passing control back to said IMS program.

- 1 18. A program storage media readable by a machine and containing 2 instructions for performing the method contained in claim 1.
- 19. A program storage media readable by a machine and containing
 instructions for performing the method contained in claim 8.
- 1 20. A program storage media readable by a machine and containing instructions for performing the method contained in claim 16.
- A program storage media readable by a machine and containing
 instructions for performing the method contained in claim 17.